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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,216	04/17/2006	Alessandro Coppola	6097P069	4566
	7590 10/12/200 KOLOFF TAYLOR &	EXAMINER		
1279 OAKMEAD PARKWAY			WIEHE, NATHANIEL EDWARD	
SUNNYVALE, CA 94085-4040			ART UNIT	PAPER NUMBER
			3745	
		•	MAIL DATE	DELIVERY MODE
			10/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		\mathcal{M}				
	Application No.	Applicant(s)				
	10/539,216	COPPOLA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Nathan Wiehe	3745				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION (166a). In no event, however, may a rivil apply and will expire SIX (6) MON cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 Au	<u>igust 2007</u> .					
2a)⊠ This action is FINAL . 2b)□ This action is non-final.						
, 	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		·				
4) Claim(s) 1,2 and 5-12 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2 and 5-12</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers	·.					
9) The specification is objected to by the Examine.	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
. 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Date 5) Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:						

Application/Control Number: 10/539,216

Art Unit: 3745

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 20 August 2007 have been fully considered but they are not persuasive.

Applicant argues, "since examination is used to determine patentability of the application... "material to examination " is sufficient". While the office determines patentability through examination the burden of patentability for the applicant is broader than the examination process. Further, the rule explicitly requires the applicant to disclose information material to patentability, not just examination. Therefore, the objection to the oath is maintained.

Applicant argues that Gaudenzi does not disclose every limitation of the claims. Specifically, Applicant asserts that Gaudenzi does not disclose a dispersion of powders in a predefined manner on the component so as to expose metal surfaces in a designated zone of the component to the powder in suitable concentration, to allow fixing to the metal surfaces in the zone. However, Gaudenzi explicitly indicates that the powders are dispersed and that the concentration of the metal powder is greatest adjacent the root portion resulting in a welding of the powder portion to the metal root portion (Gaudenzi column 1, lines 42-48). Therefore, the dispersion of powders disclosed by Gaudenzi exposes the metal surfaces in a designated zone in suitable concentrations to allow fixing to the metal surfaces in the zone.

Application/Control Number: 10/539,216

Art Unit: 3745

Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

It does not state that the person making the oath or declaration acknowledges the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 CFR 1.56.

Specifically, the statement "material to examination" is insufficient.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 6-8 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Gaudenzi (2,431,660). Gaudenzi discloses high performance component for a gas turbine and the method of obtaining the competent by powder metallurgy with a dispersion of powders. The powders are dispersed in a predefined manner resulting in a suitable concentrations in designated zones, i.e. the interface of the powders with the internal bodies, so as to allow fixing to the metal surfaces in the zones (Gaudenzi column 1, lines 42-48). Also, the method provides for maximum refractoriness and resistance with respect of the hot gases in a designated zone (b). The powders include metal (a) and non-metal (b) powders and are perfectly fixed together by microfusion (Gaudenzi column 1, lines 42-45). Further, the dispersion of metal and ceramic

Application/Control Number: 10/539;216

Art Unit: 3745

powders provides for varied chemical and physical properties at different points of the component.

In regard to claim 6, the limitation of "internal bodies are produced by microfusion or mechanical machining" is considered a product by process limitation. As set forth in MPEP 2114, product by process claims are NOT limited to the manipulation of the recited steps, only to the structure implied by the steps. Once a product appearing to be substantially the same or similar is found, a 25 U.S.C. § 102/103 rejection may be made and the burden is shifted to applicant to show an unobvious difference. See MPEP 2113. However, in the instant case Gaudenzi does disclose the method of obtaining the component as claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,2,5 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gaudenzi (2,431,660). Gaudenzi disclose the method of manufacturing components of a gas turbine substantially as claimed except for the step of producing internal bodies by microfusion or mechanical machining. Gaudenzi is silent as to the method of forming the root section and states, "the foot or root portion a of the blade is formed of a suitable steel and shaped to conform to the design of the stator and rotor mountings of the turbine." (Gaudenzi column 1, lines 34-37). However,

Application/Control Number: 10/539,216

Art Unit: 3745

it is well known in the art of forming turbine components to structure steel mounting structures, i.e. blade roots, through the process of mechanical machining in order to conform to close tolerances of the mounting structures. Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the invention of Gaudenzi by forming the blade root through mechanical machining for the purpose of meeting the close tolerances of the turbine's mounting structures.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan Wiehe whose telephone number is (571)272-

Application/Control Number: 10/539,216 Page 6

Art Unit: 3745

8648. The examiner can normally be reached on Mon.-Thur. and alternate Fri., 7am-4:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look can be reached on (571)272-4820. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nathan Wiehe Examiner

Art Unit 3745

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